

**CLAIMS**

1. An accessory (1) for a syringe (2), comprising a body (15), first holding means bearing against the needle (7) of the syringe or against the adapter (8) that connects this needle (7) to this syringe (2), and second holding means (61) bearing against the syringe body (5), these first and second holding means (20, 61) allowing the needle (7) to be held on the syringe body (5) when stress is exerted on the needle (7) in the longitudinal direction of the syringe (2) at the time of injection, with a tendency to separate the needle (7) from the syringe body (5);

wherein:

- said body (15) is of roughly semi-tubular shape;
- said first holding means comprise a distal transverse wall (20) connected to one end of said body (15) and pierced with a hole (22) for the passage of the needle (7) through it, and
- said second holding means comprise a bearing zone (61) against which the proximal end of the syringe body (5) is intended to bear, the distance between said distal transverse wall (20) and said bearing zone (61) being such that the adapter (8) connecting the needle (7) to the syringe body (5) is kept bearing against said distal transverse wall (20) when the syringe body (5) bears against said bearing zone (61).

2. The accessory (1) as claimed in claim 1, and which comprises at least one means (26) allowing the connecting adapter (8) to be prevented from rotating with respect to the body (15) of the accessory.

3. The accessory as claimed in claim 2, wherein said rotation-preventing means is in the form of at least one tooth (26) projecting from said distal transverse wall (20) and/or of a rim (21) contiguous therewith.

4. The accessory (1) as claimed in claim 3, and which comprises several teeth (26) and wherein the teeth (26) are arranged around the hole (22) that said distal transverse wall (20) comprises for allowing the passage of the needle (7), in a radial direction with respect to this hole (22).

5. The accessory (1) as claimed in one of claims 1 to 4, wherein the adapter (8) connecting the needle (7) to the syringe body (5) has a more or less conical or cylindro-conical shape and is intended to be jammed into said hole (22) in the distal transverse wall (20).

6. The accessory (1) as claimed in one of claims 1 to 5, and which is made as a single piece, particularly by molding in a synthetic material.

7. The accessory (1) as claimed in one of claims 1 to 6, and of which the body (15) is made in two parts (16, 17), one of which comprises said transverse wall (20) and the other of which comprises said bearing zone (31), these two parts (16, 17) being connected to one another by an elastic zone (18) that can be stretched in the longitudinal direction of the accessory (1).

8. The accessory (1) as claimed in claim 7 wherein said elastic zone (18) comprises at least one curved, perforated, undulating or helicoid portion (40) connecting said parts (16, 17) of the body of the accessory (1).

9. The accessory (1) as claimed in one of claims 1 to 8, wherein the hole (22) that said distal transverse wall (20) comprises for the passage of the needle (7) opens to the outside of this wall via at least one slot (25), this slot (25) allowing the needle (7) to be engaged in the hole (22) laterally.

10. The accessory (1) as claimed in one of claims 1 to 9, wherein said bearing zone (61) is shaped to form a stop allowing the piston plunger (6) to slide but lying in the return path of the piston of the syringe (2) or part of the piston plunger.

11. The accessory (1) as claimed in one of claims 1 to 10, wherein said bearing zone (61) is delimited by at least one proximal transverse wall (31) that it has.

12. The accessory (1) as claimed in claim 11, and which comprises two roughly parallel proximal transverse walls (30, 31) offset in the longitudinal direction and which between them delimit a housing (33) for accommodating the proximal flange (10) or proximal lateral tabs that the body (5) of the syringe (2) might have.

13. The accessory (1) as claimed in claim 12, wherein said housing (33) is tailored to said proximal flange (10) or said proximal lateral tabs.

14. The accessory (1) as claimed in claim 12 or claim 13, wherein said housing (33) opens laterally in roughly the same direction as the direction in which said hole (22) for the passage of the needle (7) communicates with the outside of the accessory (1) via said slot (25).

15. The accessory (1) as claimed in one of claims 1 to 14, and which comprises means for snap-fastening the syringe into it.

16. The accessory (1) as claimed in one of claims 1 to 15, and which comprises a connecting wall (60) which, at its face facing toward the transverse wall intended to accommodate the adapter (8) for connecting the needle, forms lateral surfaces on each side of the body (15) of the accessory (1), these lateral surfaces (35) being intended to accommodate the user's fingers and being shaped ergonomically for that purpose.

17. The accessory (1) as claimed in one of claims 1 to 16, and of which the body (15) has two longitudinal edges (19) delimiting the housing that accommodates the syringe body (5), these edges (19) having shapes which taper toward their free edges.

18. The accessory (1) as claimed in one of claims 1 to 17, and which is designed for a container of the "carpule" or "cartridge" type.

19. The accessory (1) as claimed in any of the preceding claims, characterized in that said body (15) consists in a semi-tube.